

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	((cochlea or cochlear or hearing) reference electrode (interval or relationship or octave or scale or music or musical or diatonic) frequency (map or chart or template) pitch current).clm.	US-PGPUB; USPAT	AND	ON	2007/02/23 12:19
L2	96	(607/55).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/02/23 12:19
S1	23	("3751605" "4400590" "4495384" "4819647" "5603726" "5626629" "5938691" "6067474" "6078838" "6129753" "6157861" "6181969" "6195585" "6205360" "6208882" "6219580" "6249704" "6289247" "6295467" "6393325" "6415185" "6516227").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/12 15:09
S2	12	("4357497"   "4510936"   "5095904"   "5271397"   "5603726"   "5674264"   "5758651"   "5885225"   "6078838").PN. OR ("6249704").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/12 15:32
S3	16	("4374526"   "4884447"   "5413114"   "5526819"   "5546956"   "5594174").PN. OR ("5885225").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/12 15:58
S4	78	(607/55).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/12 15:58
S5	29	("4374526"   "4459996"   "4589137"   "4630304"   "4636586"   "4649505"   "4653102"   "4672674"   "4684989"   "4716907"   "4884447"   "5033082"   "5267571").PN. OR ("5526819").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/12 16:16
S9	83300	((("600") or ("607"))).CLAS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/12 16:17
S10	0	S6 and S9	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/12 16:17
S11	431	(ramcharitar fortune).in.	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/12 16:39
S15	7	((("6249704") or ("6219580") or ("4400590") or ("5626629") or ("6067474") or ("6157861") or ("6289247"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/13 09:55
S16	1	("6393325").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/13 10:55

## EAST Search History

S17	3036	(cochlea cochlear) and (implant system device)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/13 13:54
S18	1878781	pitch frequency	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/13 13:54
S19	21946	(place location point) near (stimulus stimulation electrode)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/13 13:55
S20	223	S17 and S18 and S19	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/13 14:45
S21	372643	waveform morphology	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/13 13:56
S22	2051090	amplitude magnitude height	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/13 13:56
S23	134923	pulsewidth (pulse adj width)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/13 13:56
S24	3029	current near steering	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/13 13:56
S25	13	S17 and S24	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/13 13:56
S26	3763	(current near steering) (virtual near electrode)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/13 13:57
S27	1200171	octave scale diatonic	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/13 13:57
S28	11772	vowel consonant formant	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/13 13:57

## EAST Search History

S29	166612	acoustic	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/13 14:38
S30	1114	S17 and S27	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/13 14:38
S31	96	S30 and S28	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/13 14:39
S32	25	S17 and S26	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/13 14:39
S33	9	S32 and S27	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/13 14:40
S34	0	S33 and S28	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/13 14:39
S35	1	S32 and S28	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/13 14:42
S36	2	S26 and S27 and S28	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/13 14:42
S37	121	(S31 S32 S33) and S18	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/13 14:45
S38	3036	(cochlea cochlear) and (implant system device)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/14 08:28
S39	1200171	octave scale diatonic	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/14 10:38
S40	11772	vowel consonant formant	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/14 08:28

## EAST Search History

S41	1114	S38 and S39	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/14 08:28
S42	96	S41 and S40	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/14 08:28
S43	1878781	pitch frequency	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/14 08:28
S44	3763	(current near steering) (virtual near electrode)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/14 08:28
S45	25	S38 and S44	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/14 08:28
S46	9	S45 and S39	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/14 08:28
S47	121	(S42 S45 S46) and S43	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/14 08:28
S48	21946	(place location point) near (stimulus stimulation electrode)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/14 08:28
S49	223	S38 and S43 and S48	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/14 08:37
S50	112	S47 not S46	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/14 08:38
S51	25	S47 not S42	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/14 08:38
S52	218	S49 not S42	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/14 08:38

## EAST Search History

S53	204	S52 not S47	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/14 08:38
S54	12	("3751605"   "4267410"   "4284856"   "4357497"   "4400590"   "4408608"   "4428377"   "4532930"   "4577641"   "5626629"   "6157861"   "6609032"). PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/14 10:26
S56	69	(US-20060116742-\$ or US-20040236390-\$ or US-20050273141-\$ or US-20050245987-\$ or US-20050137651-\$ or US-20050137650-\$ or US-20030114899-\$ or US-20020010496-\$ or US-20040136556-\$ or US-20060100672-\$ or US-20050209655-\$ or US-20010031909-\$ or US-20040082980-\$ or US-20030167077-\$ or US-20020128827-\$ or US-20020116177-\$ or US-20050065781-\$ or US-20050008179-\$ or US-20050033377-\$ or US-20030171786-\$ or US-20030036790-\$).did. or (US-6415185-\$ or US-6289247-\$ or US-6249704-\$ or US-6219580-\$ or US-6205360-\$ or US-6078838-\$ or US-5626629-\$ or US-4495384-\$ or US-4357497-\$ or US-5526819-\$ or US-6889085-\$ or US-5885225-\$ or US-5868682-\$ or US-5710819-\$ or US-6393325-\$ or US-7039466-\$ or US-6915166-\$ or US-6198971-\$ or US-5891183-\$ or US-5762583-\$ or US-5755747-\$ or US-5531774-\$ or US-6304787-\$ or US-5649970-\$ or US-6970570-\$ or US-6868163-\$).did. or (US-6731769-\$ or US-6571207-\$ or US-5867816-\$ or US-5809462-\$ or US-5800475-\$ or US-5794187-\$ or US-5758023-\$ or US-5749066-\$ or US-5271397-\$ or US-4532930-\$ or US-6925332-\$ or US-6731986-\$ or US-6397110-\$ or US-6374143-\$ or US-6175767-\$ or US-6157861-\$ or US-6068652-\$ or US-6002966-\$ or US-5860936-\$ or US-5601617-\$ or US-4648403-\$ or US-6609032-\$).did.	US-PGPUB; USPAT	OR	ON	2006/06/14 10:36

## EAST Search History

S57	16	S56 and octave	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/14 10:39
S58	14	S56 and S44	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/14 10:38
S59	20	S56 and S40	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/14 10:38
S60	0	S57 and S58 and S59	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/14 10:37
S61	45	S56 and S39	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/14 10:37
S62	29	S61 not S57	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/14 10:38
S63	66	S56 and S43	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/14 10:40
S64	11	"66" and S62	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/14 10:40
S65	29	S63 and S62	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/14 10:40
S66	11	S59 and S62	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/14 10:40
S67	20	S63 and S59	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/14 10:40
S68	14	S63 and S58	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/14 10:41

## EAST Search History

S69	16	S63 and S57	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/14 11:12
S71	20	(robert and p and quinn).in.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/14 11:15
S72	3	(robert and patel and quinn).in.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/14 11:12
S73	18	S56 and S39 and S40	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/14 12:06
S74	2	S56 and (frequency adj map)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/14 12:10
S75	5	((("6516227") or ("6393325") or ("6249704") or ("6218580") or ("4400590"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/14 15:07
S76	1	("5626629").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/14 15:07
S77	3763	(current near steering) (virtual near electrode)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/14 16:19
S78	1878781	pitch frequency	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/14 16:19
S79	1200171	octave scale diatonic	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/14 16:20
S80	11772	vowel consonant formant	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/14 16:20

## EAST Search History

S81	69	(US-20060116742-\$ or US-20040236390-\$ or US-20050273141-\$ or US-20050245987-\$ or US-20050137651-\$ or US-20050137650-\$ or US-20030114899-\$ or US-20020010496-\$ or US-20040136556-\$ or US-20060100672-\$ or US-20050209655-\$ or US-20010031909-\$ or US-20040082980-\$ or US-20030167077-\$ or US-20020128827-\$ or US-20020116177-\$ or US-20050065781-\$ or US-20050008179-\$ or US-20050033377-\$ or US-20030171786-\$ or US-20030036790-\$).did. or (US-6415185-\$ or US-6289247-\$ or US-6249704-\$ or US-6219580-\$ or US-6205360-\$ or US-6078838-\$ or US-5626629-\$ or US-4495384-\$ or US-4357497-\$ or US-5526819-\$ or US-6889085-\$ or US-5885225-\$ or US-5868682-\$ or US-5710819-\$ or US-6393325-\$ or US-7039466-\$ or US-6915166-\$ or US-6198971-\$ or US-5891183-\$ or US-5762583-\$ or US-5755747-\$ or US-5531774-\$ or US-6304787-\$ or US-5649970-\$ or US-6970570-\$ or US-6868163-\$).did. or (US-6731769-\$ or US-6571207-\$ or US-5867816-\$ or US-5809462-\$ or US-5800475-\$ or US-5794187-\$ or US-5758023-\$ or US-5749066-\$ or US-5271397-\$ or US-4532930-\$ or US-6925332-\$ or US-6731986-\$ or US-6397110-\$ or US-6374143-\$ or US-6175767-\$ or US-6157861-\$ or US-6068652-\$ or US-6002966-\$ or US-5860936-\$ or US-5601617-\$ or US-4648403-\$ or US-6609032-\$).did.	US-PGPUB; USPAT	OR	ON	2006/06/14 16:20
S82	553	S77 and S78 and (S79 S80)	US-PGPUB; USPAT	OR	ON	2006/06/14 16:21
S83	43	S77 and S78 and (octave S80)	US-PGPUB; USPAT	OR	ON	2006/06/14 16:21
S84	9	S81 and S82	US-PGPUB; USPAT	OR	ON	2006/06/14 16:21
S85	1	S81 and S83	US-PGPUB; USPAT	OR	ON	2006/06/14 16:21



## EAST Search History

S86	3040	(cochlea cochlear) and (implant system device)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/15 11:05
S87	213	S86 and music	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/15 11:05
S88	69	(US-20060116742-\$ or US-20040236390-\$ or US-20050273141-\$ or US-20050245987-\$ or US-20050137651-\$ or US-20050137650-\$ or US-20030114899-\$ or US-20020010496-\$ or US-20040136556-\$ or US-20060100672-\$ or US-20050209655-\$ or US-20010031909-\$ or US-20040082980-\$ or US-20030167077-\$ or US-20020128827-\$ or US-20020116177-\$ or US-20050065781-\$ or US-20050008179-\$ or US-20050033377-\$ or US-20030171786-\$ or US-20030036790-\$).did. or (US-6415185-\$ or US-6289247-\$ or US-6249704-\$ or US-6219580-\$ or US-6205360-\$ or US-6078838-\$ or US-5626629-\$ or US-4495384-\$ or US-4357497-\$ or US-5526819-\$ or US-6889085-\$ or US-5885225-\$ or US-5868682-\$ or US-5710819-\$ or US-6393325-\$ or US-7039466-\$ or US-6915166-\$ or US-6198971-\$ or US-5891183-\$ or US-5762583-\$ or US-5755747-\$ or US-5531774-\$ or US-6304787-\$ or US-5649970-\$ or US-6970570-\$ or US-6868163-\$).did. or (US-6731769-\$ or US-6571207-\$ or US-5867816-\$ or US-5809462-\$ or US-5800475-\$ or US-5794187-\$ or US-5758023-\$ or US-5749066-\$ or US-5271397-\$ or US-4532930-\$ or US-6925332-\$ or US-6731986-\$ or US-6397110-\$ or US-6374143-\$ or US-6175767-\$ or US-6157861-\$ or US-6068652-\$ or US-6002966-\$ or US-5860936-\$ or US-5601617-\$ or US-4648403-\$ or US-6609032-\$).did.	US-PGPUB; USPAT	OR	ON	2006/06/15 11:39

## EAST Search History

S89	39	S88 and (fitting programming)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/06/15 11:46
S90	1	("6044160").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/15 16:52
S91	69	(US-20050137650-\$ or US-20040236390-\$ or US-20030114899-\$ or US-20030167077-\$ or US-20060116742-\$ or US-20050065781-\$ or US-20050209655-\$ or US-20050273141-\$ or US-20030036790-\$ or US-20020128827-\$ or US-20040082980-\$ or US-20020116177-\$ or US-20060100672-\$ or US-20020010496-\$ or US-20010031909-\$ or US-20050033377-\$ or US-20040136556-\$ or US-20050245987-\$ or US-20050008179-\$ or US-20030171786-\$ or US-20050137651-\$).did. or (US-4495384-\$ or US-5749066-\$ or US-6157861-\$ or US-6970570-\$ or US-5800475-\$ or US-6198971-\$ or US-4648403-\$ or US-6068652-\$ or US-6175767-\$ or US-5860936-\$ or US-4532930-\$ or US-6205360-\$ or US-6289247-\$ or US-5868682-\$ or US-4357497-\$ or US-5601617-\$ or US-6915166-\$ or US-6925332-\$ or US-5758023-\$ or US-5794187-\$ or US-5809462-\$ or US-5762583-\$ or US-6868163-\$ or US-5885225-\$ or US-6397110-\$ or US-6889085-\$).did. or (US-6415185-\$ or US-6393325-\$ or US-5271397-\$ or US-5526819-\$ or US-6249704-\$ or US-5710819-\$ or US-5531774-\$ or US-5626629-\$ or US-6731986-\$ or US-5891183-\$ or US-6078838-\$ or US-5867816-\$ or US-6374143-\$ or US-6571207-\$ or US-6002966-\$ or US-5649970-\$ or US-5755747-\$ or US-7039466-\$ or US-6731769-\$ or US-6219580-\$ or US-6304787-\$ or US-6609032-\$).did.	US-PGPUB; USPAT	OR	ON	2007/02/22 15:06

## EAST Search History

S92	9	S91 and (current adj steer\$3)	US-PGPUB; USPAT	OR	ON	2007/02/22 15:17
S93	2	S92 and (octave interval)	US-PGPUB; USPAT	OR	ON	2007/02/22 15:17
S94	4	S92 and (octave interval harmonic)	US-PGPUB; USPAT	OR	ON	2007/02/22 15:21
S95	41	S91 and (octave interval harmonic)	US-PGPUB; USPAT	OR	ON	2007/02/22 15:58
S96	37	S95 not S94	US-PGPUB; USPAT	OR	ON	2007/02/23 11:44
S97	1	S91 and diatonic	US-PGPUB; USPAT	OR	ON	2007/02/22 15:23
S98	1	(cochlea cochlear) and diatonic	US-PGPUB; USPAT	OR	ON	2007/02/22 15:23
S99	3	(cochlea cochlear implant) and diatonic	US-PGPUB; USPAT	OR	ON	2007/02/22 15:23
S100	21	S91 and ((octave interval harmonic) same (reference probe second secondary))	US-PGPUB; USPAT	OR	ON	2007/02/22 15:58